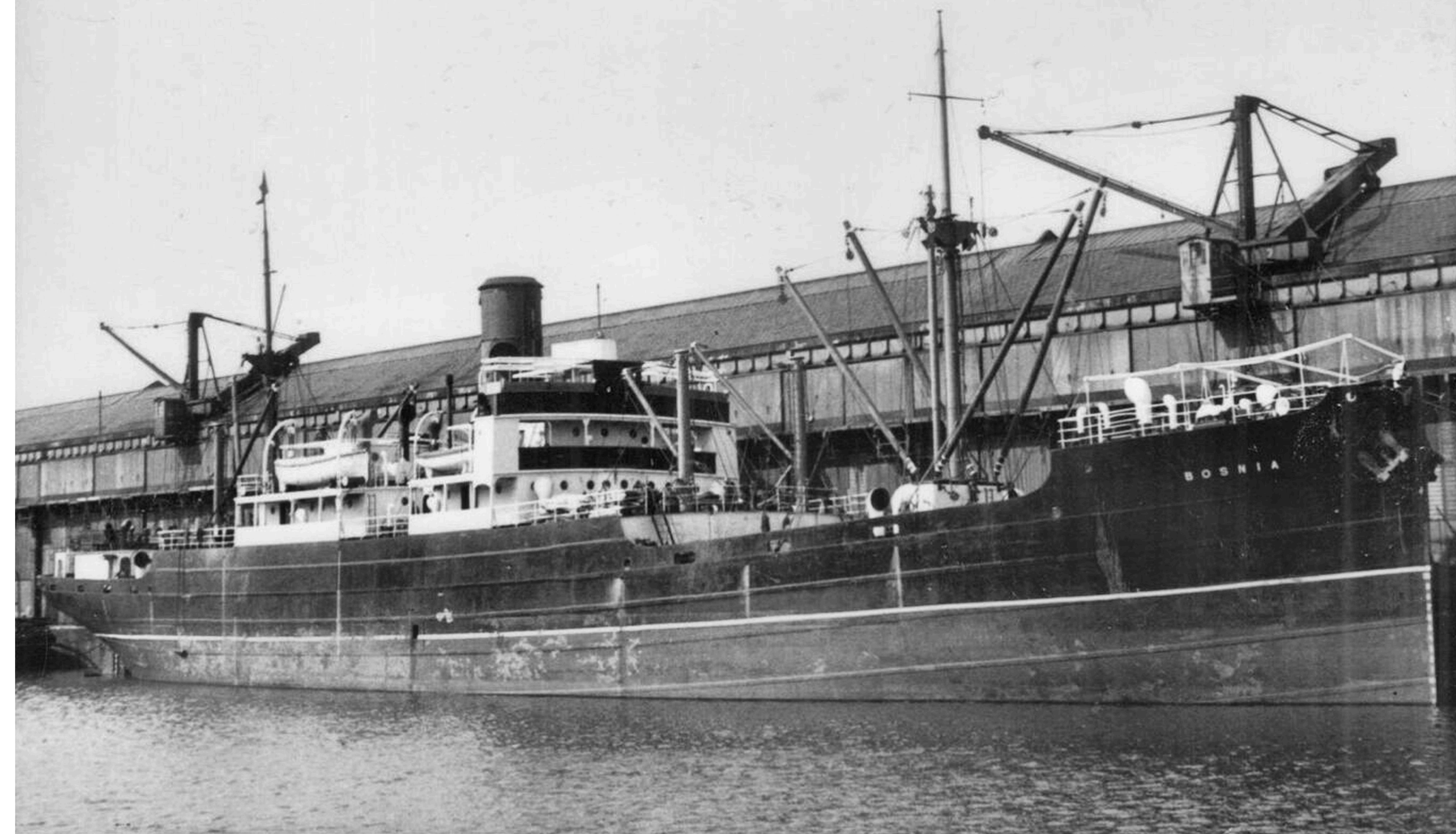


BOSNIA



Nos 560-1-2-3

Profile & Decks

COPY

J L THOMPSON & SONS

NO 560 - S/S - BOSNIA

SUNDERLAND RPT. NO. 29682

CATALINA S. EX THEO * EX NO 561 - S/S - BACTRIA

SUNDERLAND RPT. NO.

NO 562 - S/S - BOTHNIA

SUNDERLAND RPT. NO.

NO 563 - S/S - BANTRIA

SUNDERLAND RPT. NO. 29765

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Lloyd's Register
Foundation

PLANS TRANSFERRED
TO SISTER VESSEL

* Captain Manolis M/K

Dis Dec 596

M/K 3336

*

M/K 3336

00333-00334-0-0074

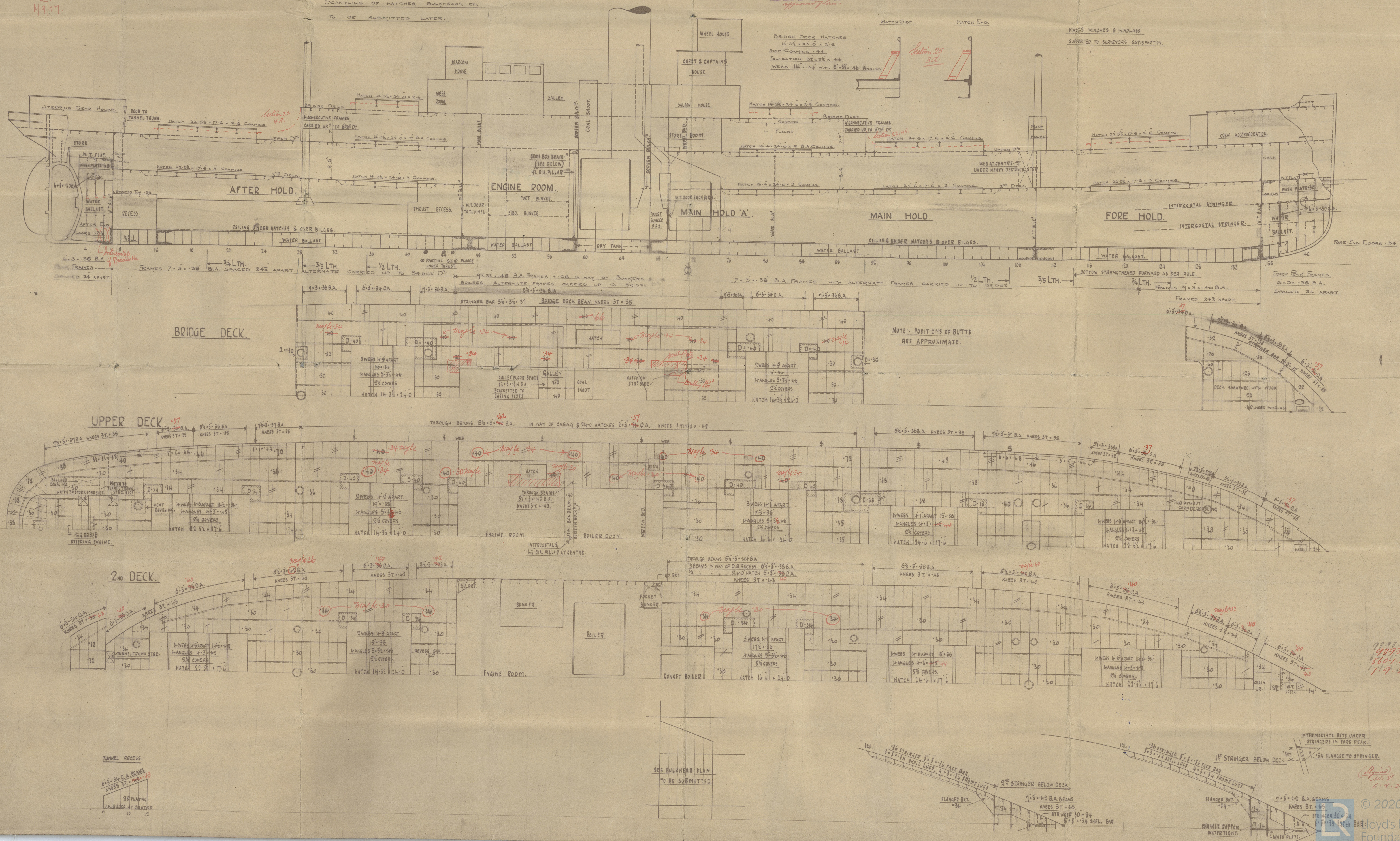
SS. Nos 560-1-2-3.
PROFILE & DECK PLAN.

292'0 L.B.P. x 45'0 B.P. EXT x 22'6 DEPTH M.D.

SCALE 1/8" = 1 FOOT.

LLOYDS
approved plan.

SCANTLING OF HATCHES, BULKHEADS, ETC.
TO BE SUBMITTED LATER.



Sunderland.

J. L. Thompson & Sons.

Profile & Decks.

— No 560. —

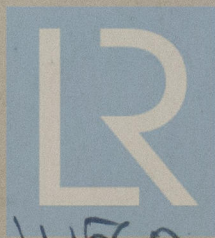
S.S. "BOSNIA".

(— as built. —)



SUNDERLAND RPT. NO. 29682

RETAIN



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W560-0118

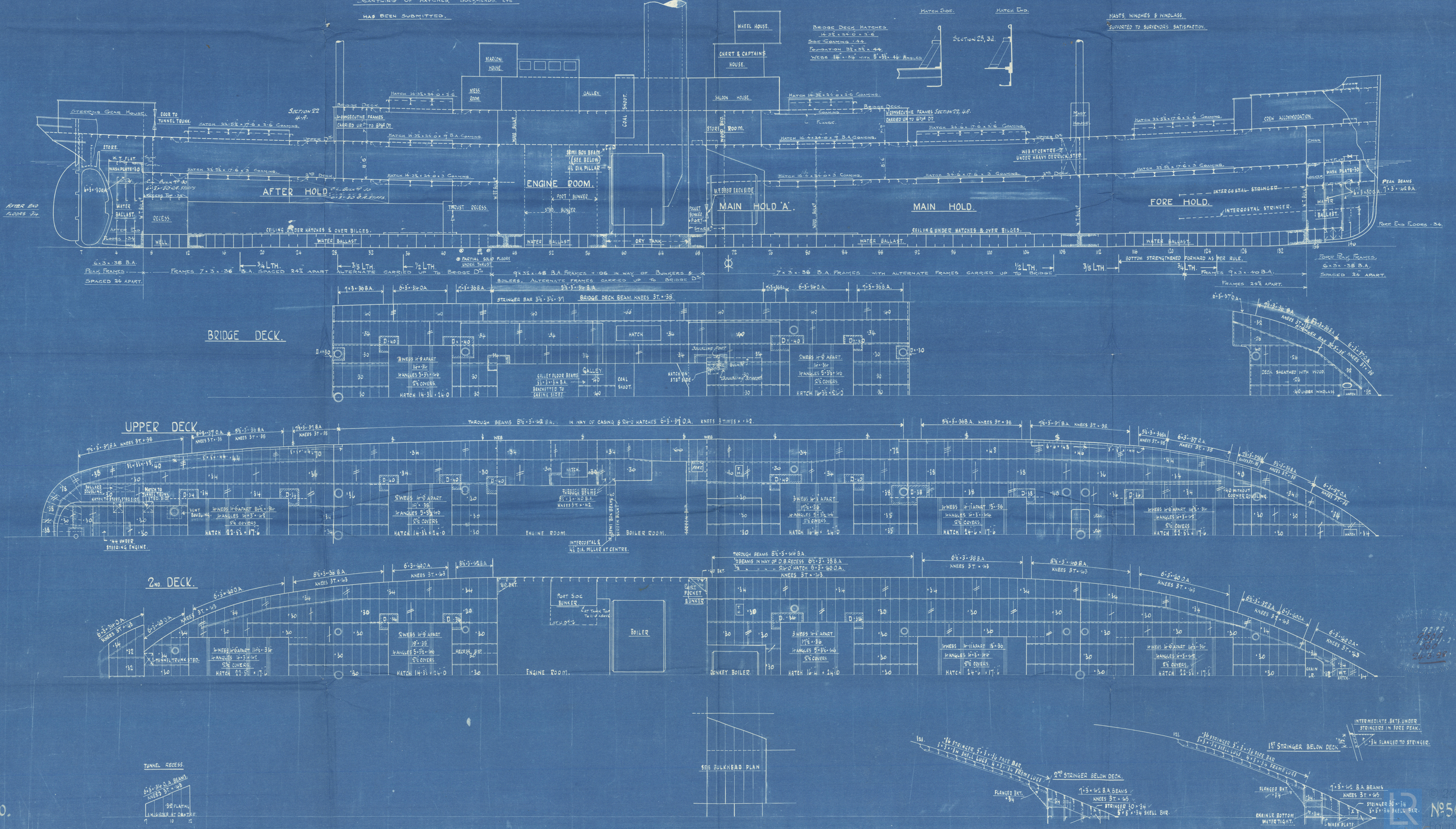
SS. "BOSNIA".
PROFILE & DECK PLAN.

292.0 L.B.P. x 45.0 B.T. EXT. x 22.6 DEPTH M.O.

SCALE 1" = 1 FOOT.



SCANTHING OF HATCHES, BULKHEADS, ETC.
HAS BEEN SUBMITTED.



N° 560-1-2-3

MIDSHIP SECTION

COPY OF

LLOYDS

APPROVED PLAN.

COPY

J. L. THOMPSON & SONS

No. 560. - s/s "BOSNIA"

SUNDERLAND TPT. NO. 29682

No. 561. - s/s * BACTRIA
IN THEO

SUNDERLAND TPT. NO.

No. 562. - s/s "BOTHNIA"
IN "EMILY"

SUNDERLAND TPT. NO.

No. 563. - s/s BANTRIA

SUNDERLAND TPT. NO. 29764.

PLANS TRANSFERRED ^{M/M 3336}
TO SISTER VESSEL

Leaflet transfer

M/M

LLOYDS



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Lloyd's Register
Foundation

003333-003340-0075

Lloyds
Stamp
6.9.27

PRINCIPAL DIMENSIONS.

LENGTH B.P.	292'0"
BREADTH EXTREME	45'0"
" MOULDED	44'6"
DEPTH MID UPPER DK.	22'6"
DEPTHS TO LENGTH (UPPER DK.)	12'98
" " (BRIDGE)	9'65

MIDSHIP SECTION.
S.S. Nos 560.1.2.3.
LLOYDS 100 A.I. CLASS.
Scale 1/2" = 1 FOOT.

LLOYDS

Controlled by Lloyds.

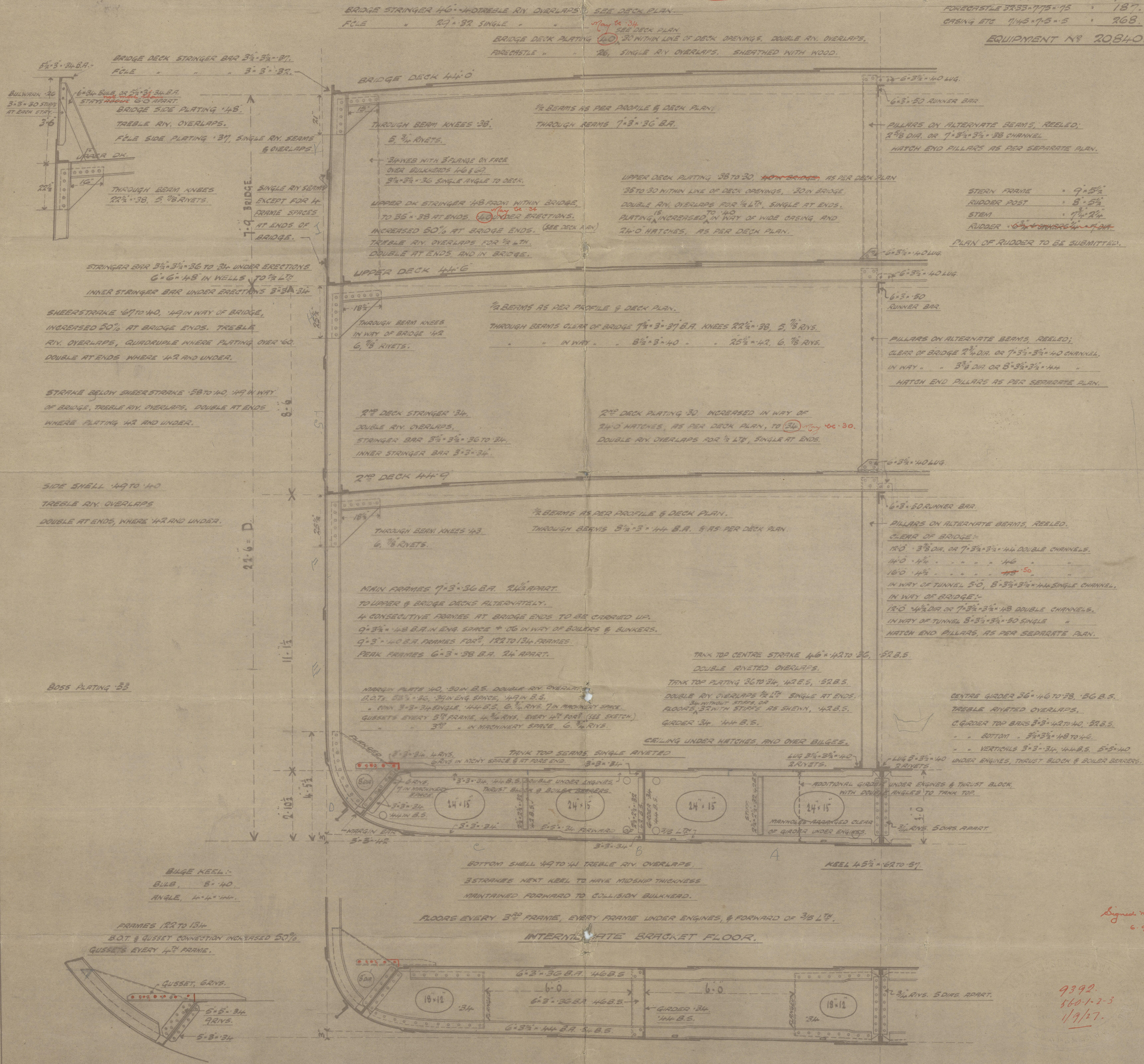
NUMERALS.

D. 22.5	d. 11.2
D.L. (22.5 x 292)	6570.
(B+D) x L (44'5" x 292)	19637.
ERECTOR'S	55% OF L

EQUIPMENT NUMERALS.

(B+D) x L	19637.
BRIDGE 18.62 x 7.75 x 75	748.
FORECASTLE 38.33 x 7.75 x 75	187.
CASING ETC 7.45 x 7.5 x 5	268.

EQUIPMENT No 20840.



Signed W.T.
6.9.27

9392.
560.1.2.3
1/9/27.

Sunderland.
J. L. Thompson & Sons.
Midship Section.
- No 560. -
s.s. "BOSNIA."

(-as built.)



SUNDERLAND RPT. NO 29682.

RETAIN



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Lloyd's Register
Foundation

W560-0117

LLOYDS 100 A.I. CLASS.


$$D = 22.5' \quad d = 11.12$$
$$D * L = (22.5 * 292) = 6570$$
$$(B + D) * L = (44.75 + 22.5) * 292 = 19637$$
$$\text{ERECTIONS} = 55\% \text{ OF } L$$

(B+D)*L = 19637.
BRIDGE 128.62*7.75*75 = 748.
FORECASTLE 28.25*7.75*75 = 164.
CASING ETC 7.45*7.5*5 = 268.

EQUIPMENT № 20.817

Nº 560.

№ 560

Sunderland

J. L. Thompson & Son.

Nos 560-1-2-3.

Pumping Arrangement.

Nº 560 - s.s. "BOSNIA"

SUNDERLAND RPT. NO. 29682

Nº 561 - s.s. BACTRIA

W. Theo

Nº 562 - s.s. "BOTHNIA"

Nº 563 - s.s. BANTRIA

SUNDERLAND RPT. NO. 29764

- COPY. -

PLANS TRANSFERRED
TO SISTER VESSEL

Captain Manolis

M/M 8597

00 8597 - 008607 - 0030

Lloyds Register
Foundation

PUMPING ARRANGEMENT

S.S. N^o 560-1-2 & 3.

SCALE = 1/8" = 1 FT.

292' 0" LBP. 45' 0" BTH. 22' 6" DTH. MLD.

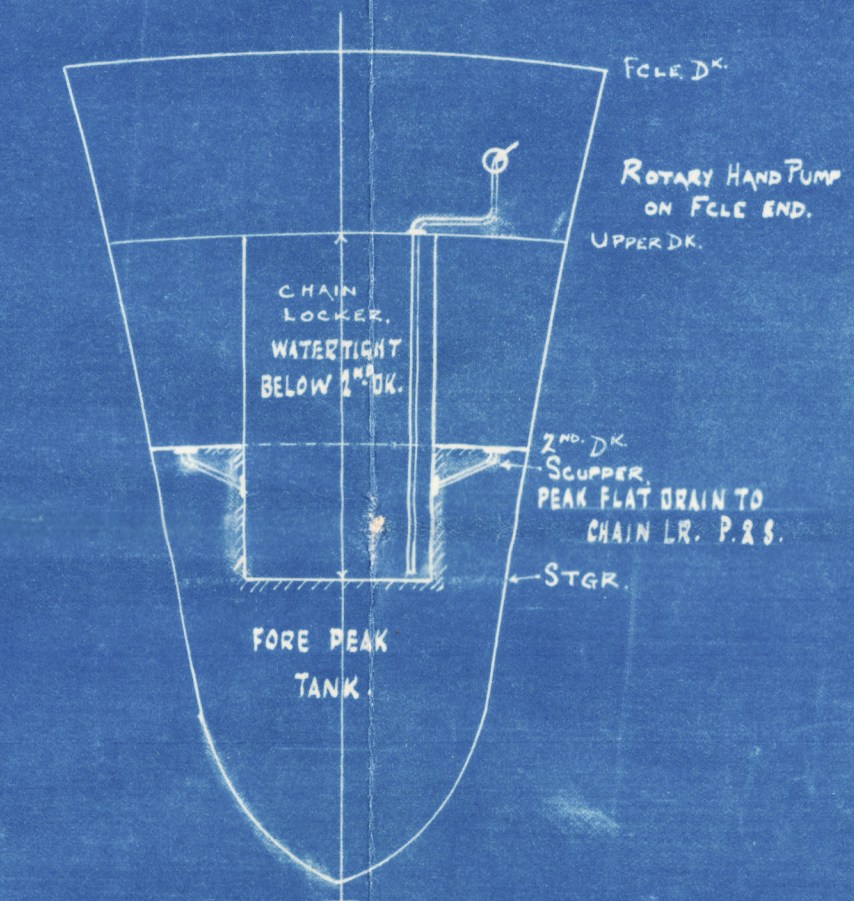
Corrected Lloyd's

CELLULAR DOUBLE BOTTOM, FITTED RIGHT FORE & AFT
DIVIDED SECTIONALLY FOR WATER BALLAST, HAVING ALL THE NECESSARY PIPING &
VALVES SO ARRANGED THAT EACH COMPARTMENT MAY BE PUMPED OUT & FILLED INDEPENDENTLY.

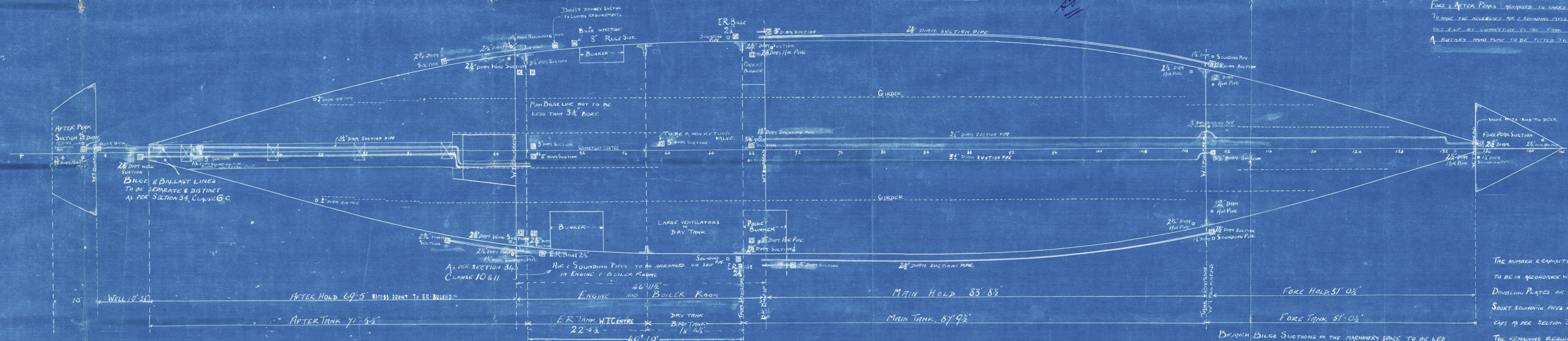
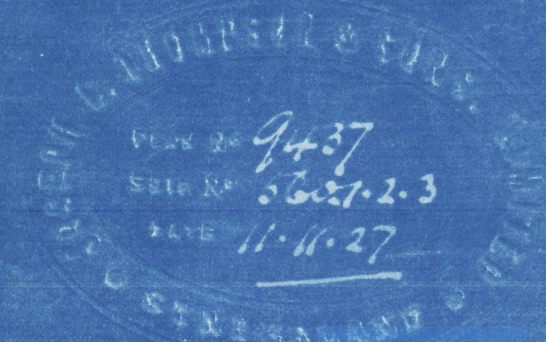
ALL SUCTION PIPES IN TANKS TO BE OF CAST-IRON, WITH FLANGED JOINTS SECURELY FASTENED,
AND TO HAVE CAST-IRON ROSEBOXES AT THE END OF THE PIPES.

AIR PIPES TO HAVE GOOSENECK TOPS & SOUNDING PIPES TO HAVE BRASS PIPE FITTED HEAVILY
FITTED INTO DECK, & CAPPED IN WITH WOOD IN THE HOLD.

FORE & AFTER PEAKS ARRANGED TO CARRY WATER BALLAST.
TO HAVE THE NECESSARY AIR & SOUNDING PIPES & TO BE PUMPED
OUT & UP BY CONNECTION TO THE TANK SECTION.
A ROTARY HAND PUMP TO BE FITTED TO EACH LOCKER.



THE NUMBER & CAPACITY OF THE POWER DRIVEN PUMPS CONNECTED TO THE MAIN BILGE LINE
TO BE IN ACCORDANCE WITH SECTION 4 OF THE RULES FOR ENGINES AND BOILERS.
DOUBLING PLATES OR THEIR EQUIVALENT TO BE FITTED UNDER ALL SOUNDING PIPES.
SHORT SOUNDING PIPES IN MACHINERY SPACE TO BE FITTED WITH NON-DETACHABLE SCREW
CAPS AS PER SECTION 34, CLAUSE 11.
THE REMAINING REQUIREMENTS OF SECTION 34
OF THE RULES (1917-24) TO BE COMPLIED WITH.



560. 1. 2. 3.

Rudder Plan.

Copy of

LLOYDS

Approved plan.

J. L. Thompson & Sons.

No. 560. - 3/8 "BOSNIA"

SUNDERLAND RPT. NO. 29682

No. 561. - "BACTRIA" *

SUNDERLAND RPT. NO.

No. 562. - "BOTHNIA"

SUNDERLAND RPT. NO.

No. 563. - "BANTRIA"

SUNDERLAND RPT. NO. 29764.

**PLANS TRANSFERRED
TO SISTER VESSEL**

Capetan

*N/W manolis **

M/M 8597

R

Lloyd's Register

008597 - 008607 - 0031

Lloyds
London

2-11-27.

S. S. N^os 560-1-2-3.

copy of
LLOYDS

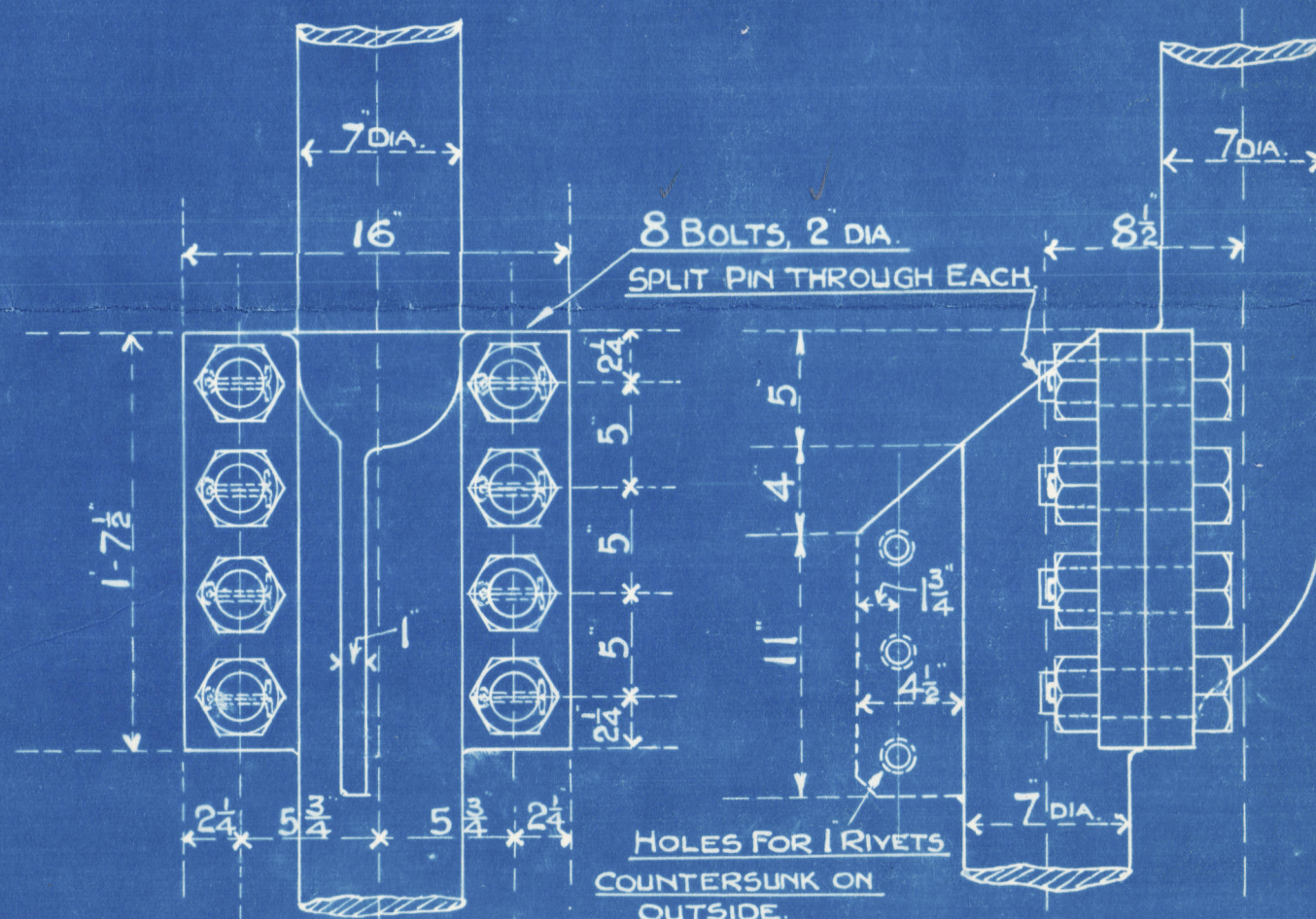
Approved plan

$$\left. \begin{array}{l} A. 74 \times D. 2.71 = 200.5 \\ \text{SPEED 11 KNOTS} \\ + \frac{1}{4} \text{ OWNERS} = 7 \text{ DIA.} \end{array} \right\} = 6 \frac{3}{4} \text{ RULE DIA.}$$

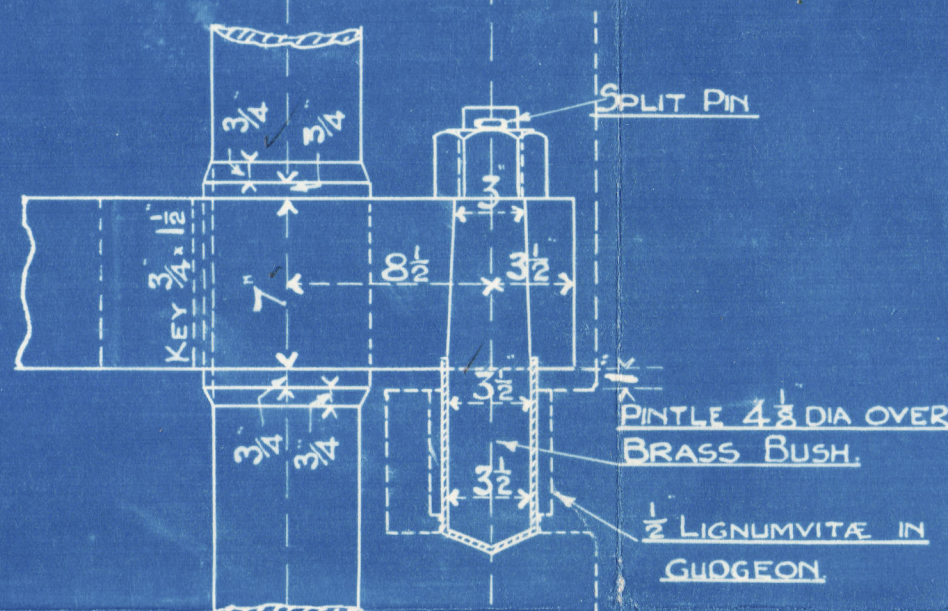
INCREASE ON FORGING ONLY.

DETAIL OF COUPLING.

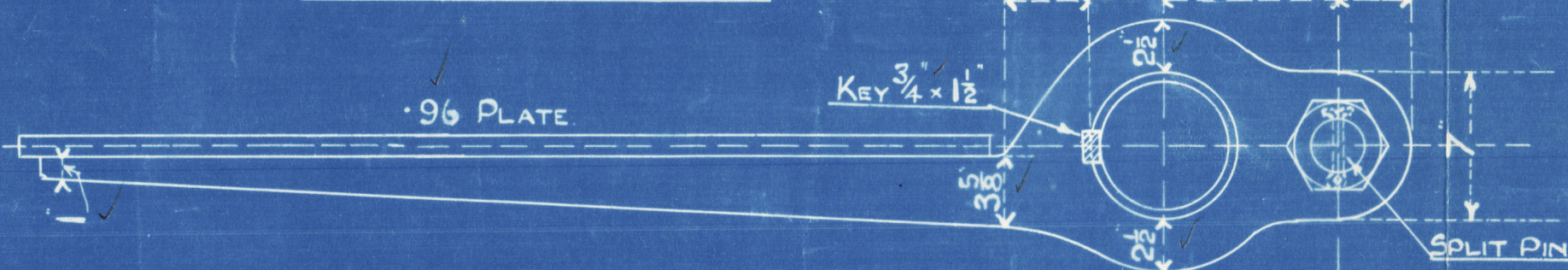
SCALE $\frac{1}{2}'' = 1 \text{ FOOT}$.



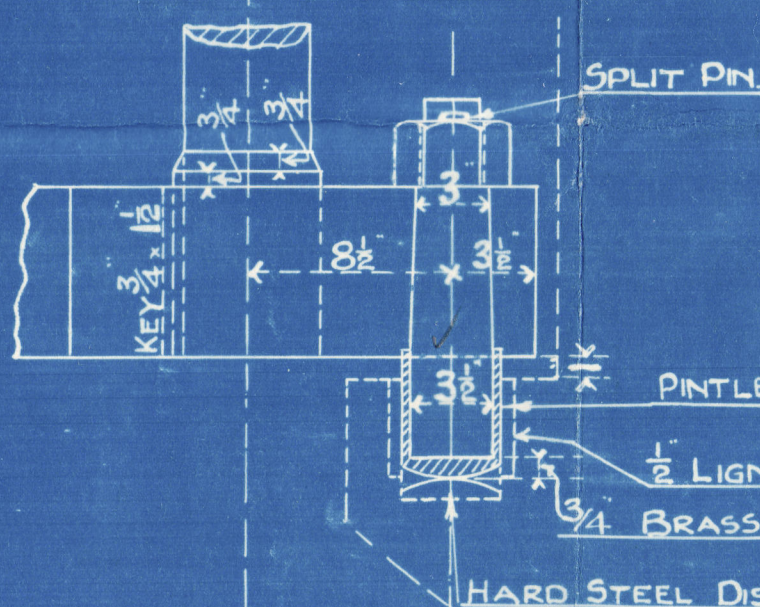
DETAIL OF B & C. PINTLES



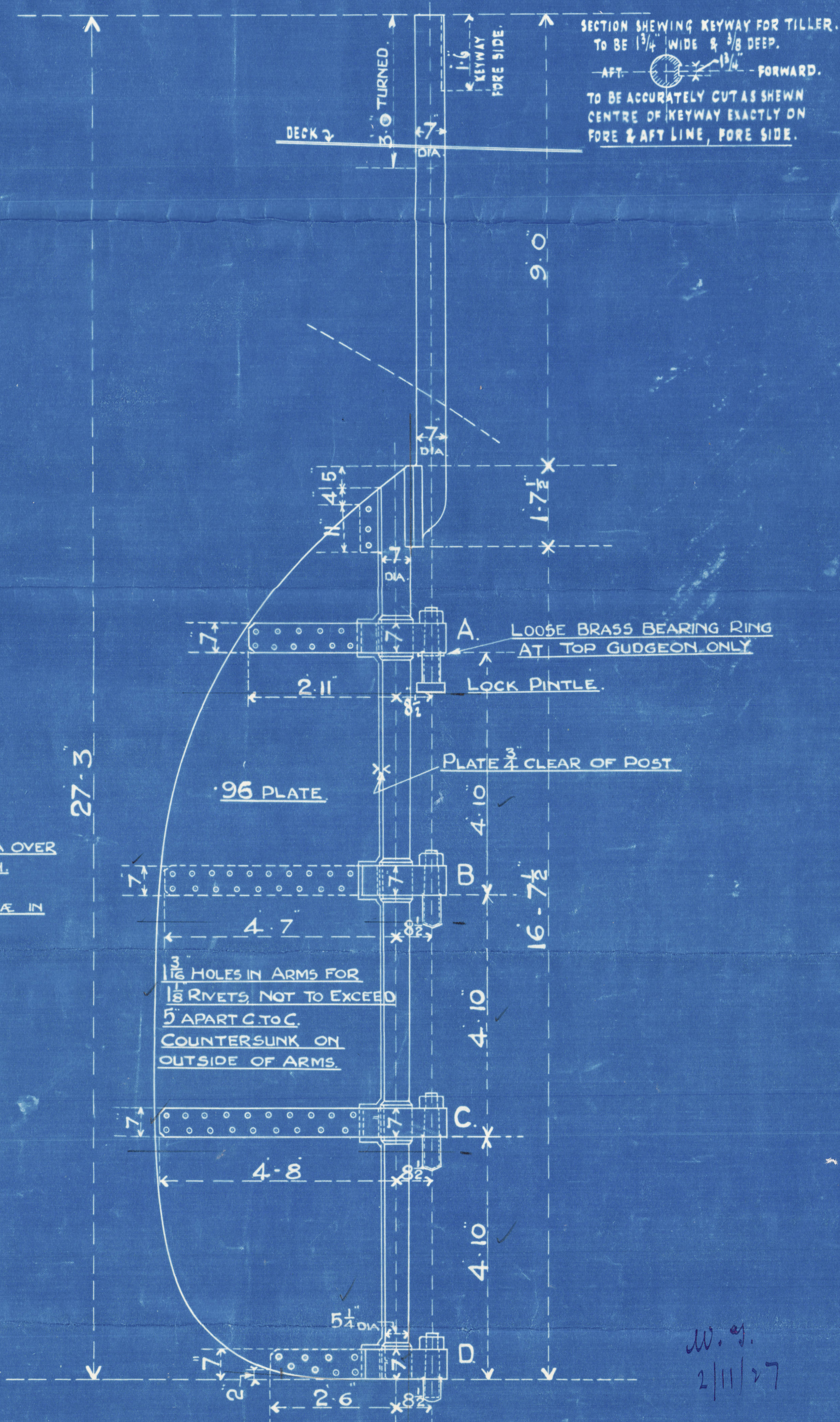
PLAN OF RIGHT HANDED ARM.



DETAIL OF BOTTOM PINTLE D.



RUDDER: SCALE $\frac{1}{2}'' = 1 \text{ FOOT}$.



POST INCREASED $\frac{3}{4}''$ IN DIA IN WAY OF ARMS
TO ALLOW KEYWAY TO BE CUT CLEAR OF
MAIN PIECE AS SHOWN.

SPACING OF ARMS & DEPTH, & DIA OF HOLES
IN GUDGEONS FOR PINTLES TO BE CHECKED FROM
STERN FRAME.

W. J.
2/11/27

THOMPSON & SONS

PLANNED 9430.

560-1-2-3

31.10.27.

Lloyds Register

Foundation

008597-008607-0031

SUNDERLAND

JOHN DICKINSON & SONS
WTD.

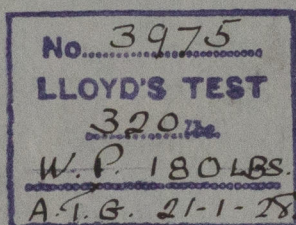
CON. NO. 891.

INTENDED FOR

J.W. THOMPSON & SONS'

S.S. NO. 560.

BOILER PLAIN



S.S. "BOSNIA"

SUNDERLAND RPT. NO. 29682

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Lloyd's Register

W560-0116 Foundation

12/18/27

TO LLOYD'S REQUIREMENTS FOR A WORKING PRESSURE OF 180 LBS./SQ. IN. TEST PRESS: 320 LBS./SQ. IN.

ALL PLATES, RIVETS, STAYS, & GIRDERS OF STEEL TUBES OF WROUGHT IRON.

SCALE: ONE INCH = ONE FOOT.

ENGINE

S91

2 OFF

MESSRS J. L. THOMPSON & SONS 5/5 560.

DATE

Aug 2nd 27

"DEIGHTON"

S92

2 OFF

DITTO

5/5 561

S93

2 OFF

DITTO

5/5 562

S94

2 OFF

DITTO

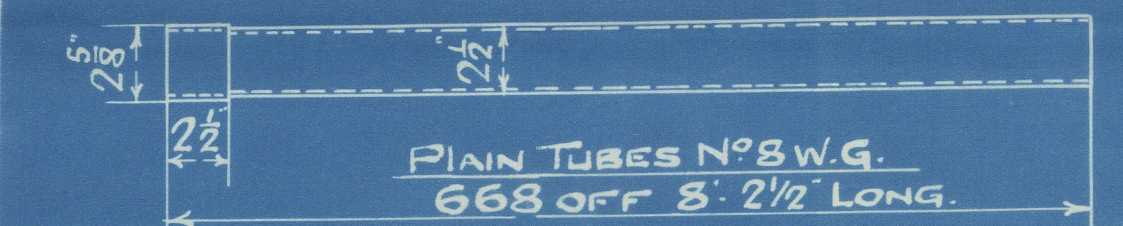
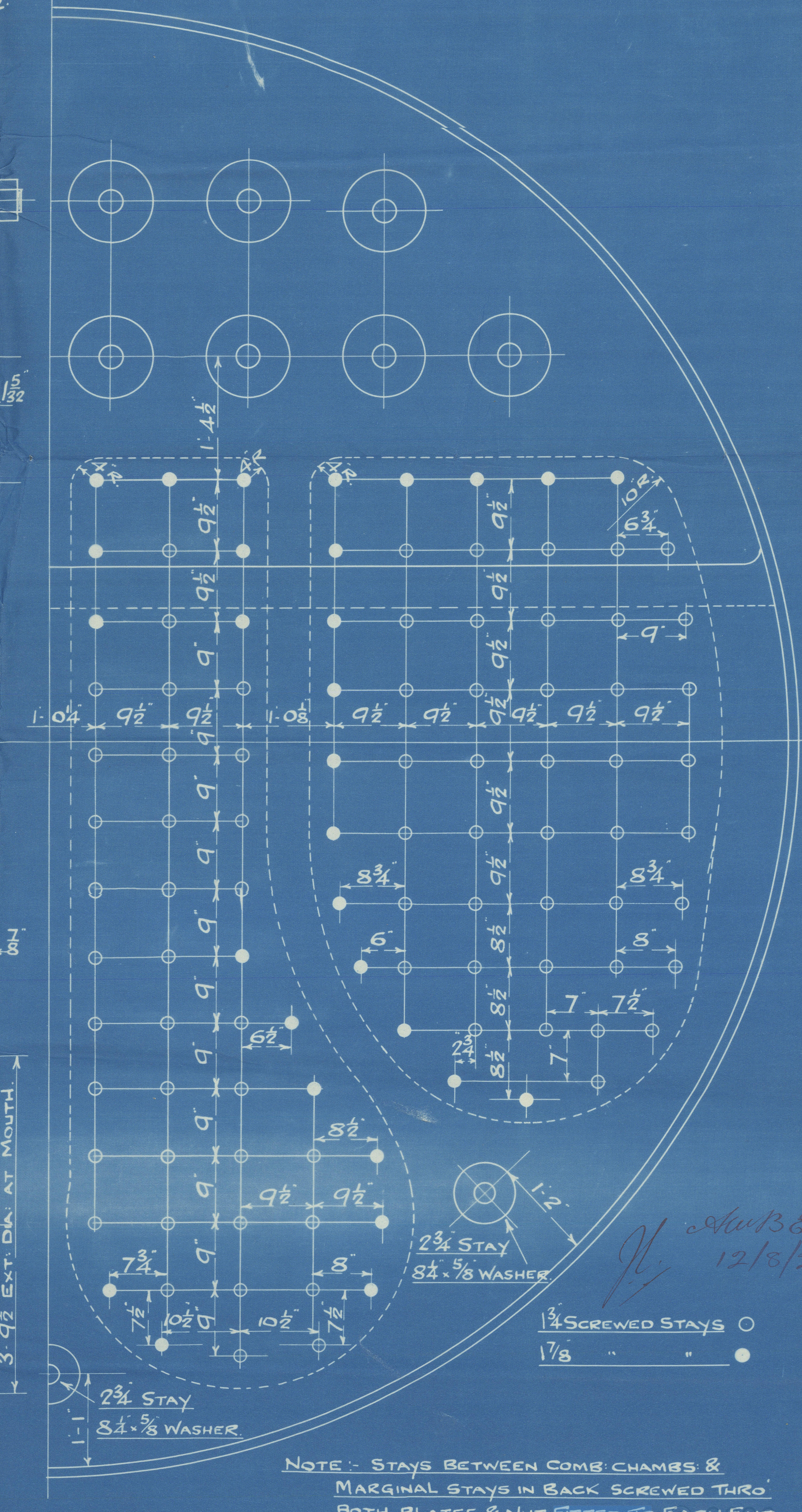
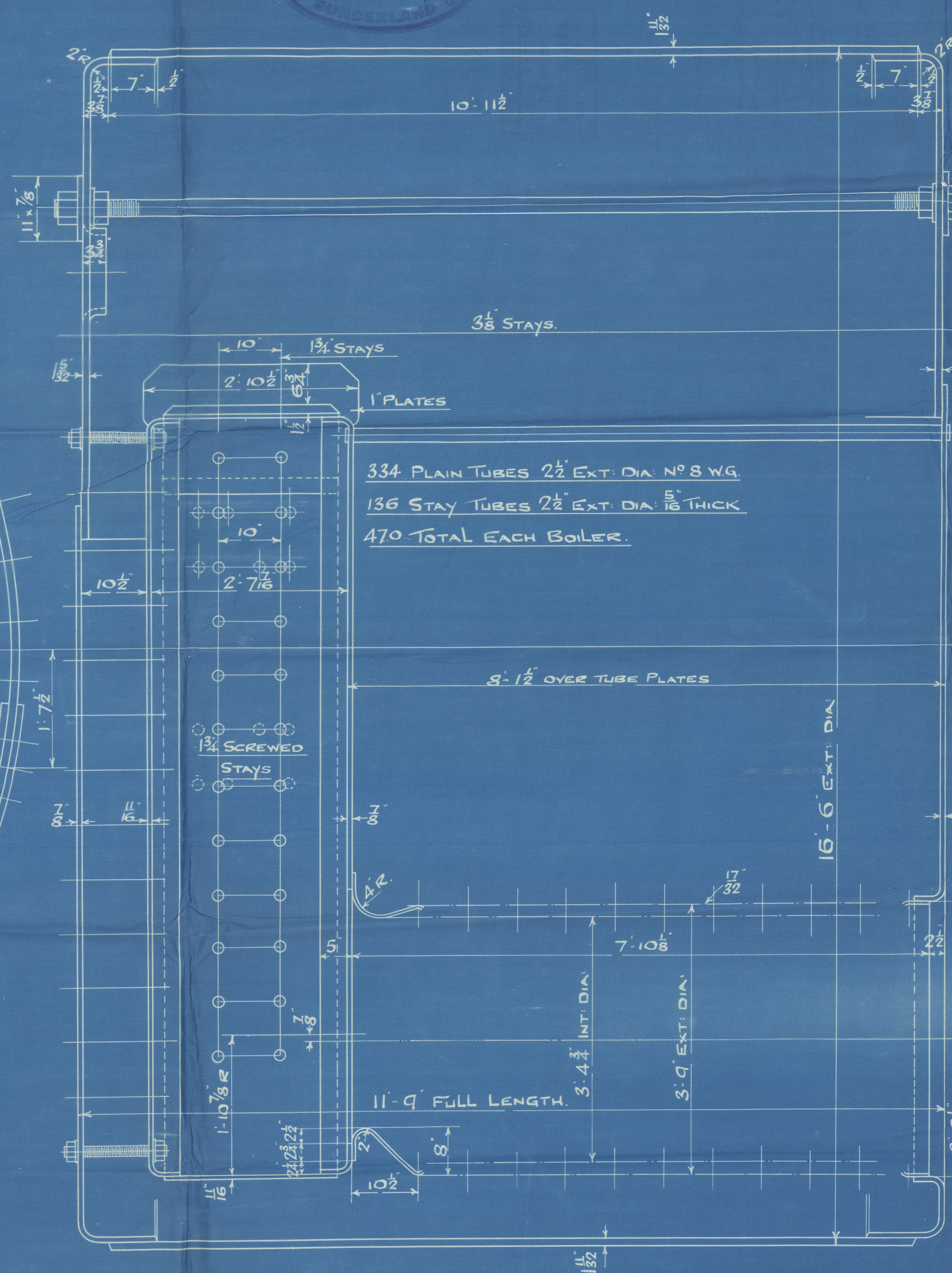
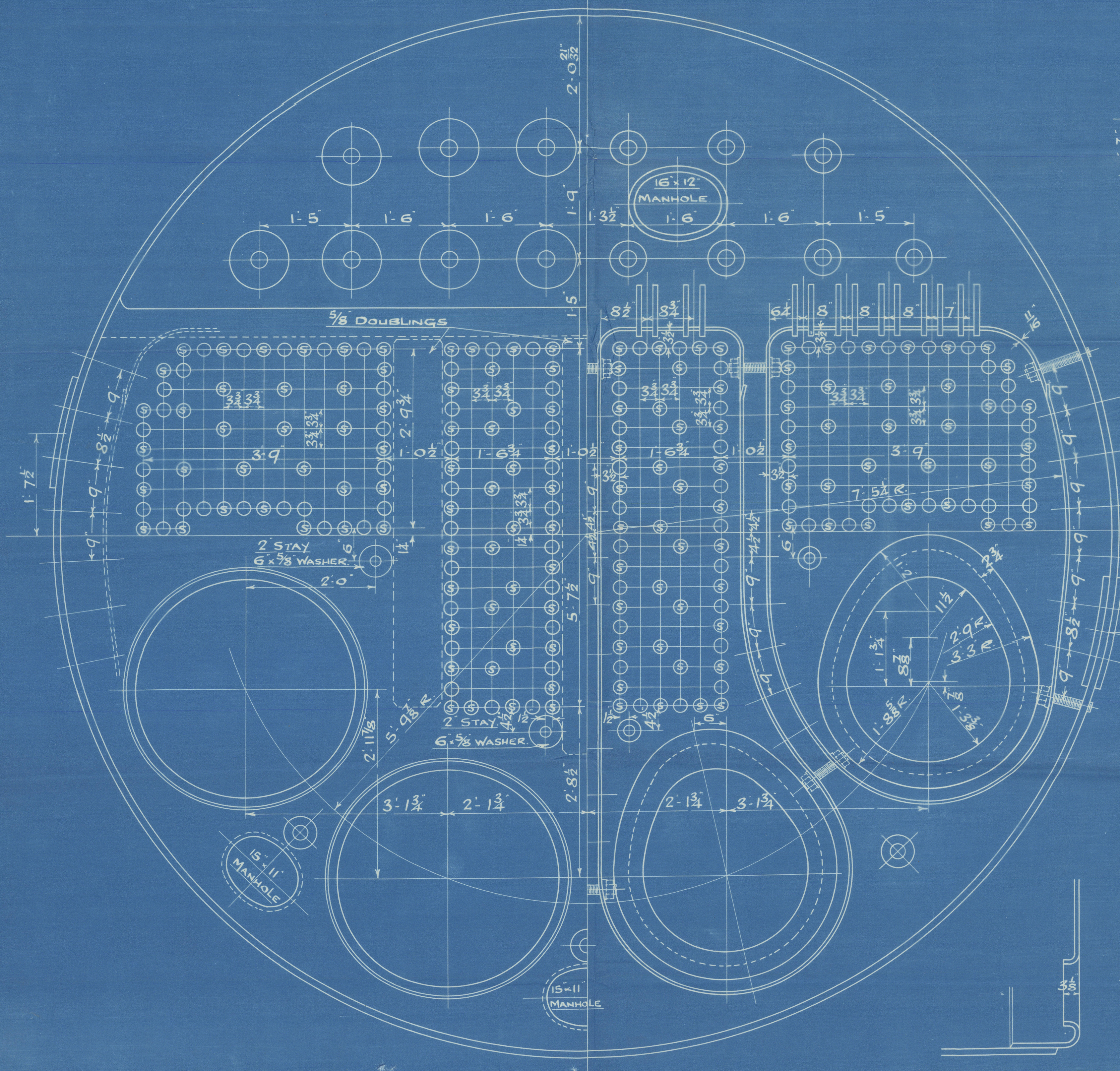
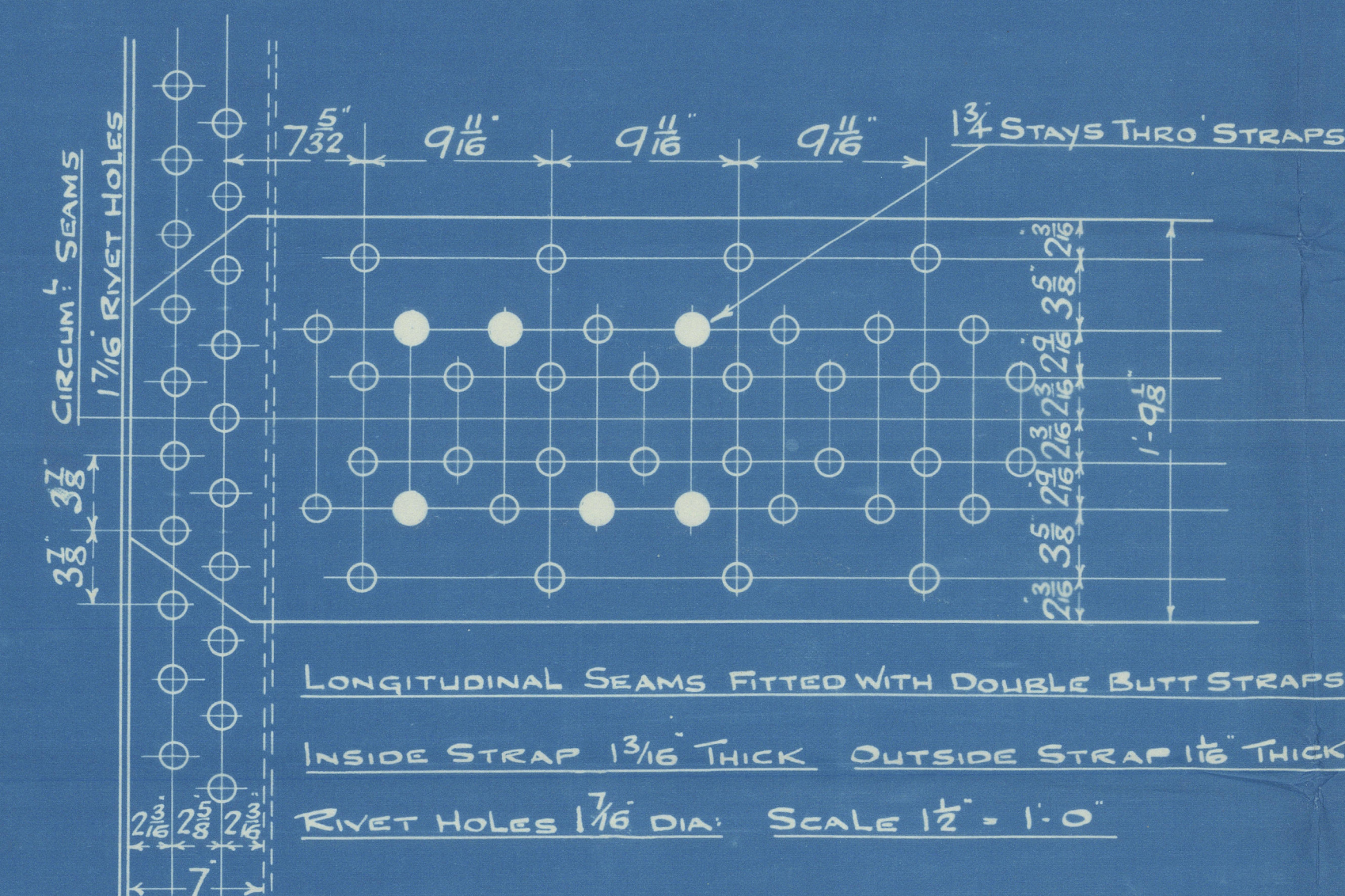
5/5 563

TENSILE STRENGTH	
PLATE	TONS/SQ
SHELL PLATES & BUTT STRAPS	28 TO 32
COMBUSTION CHAM: GIRDERS	28 TO 32
ALL OTHER PLATES	26 TO 30

RIVETTING				
POSITION	RIVETING	RIVET HOLES	PITCH	LAP
FRONT & BACK SEAMS	DOUBLE	13/16	3 1/2	5 3/8
COMB. CHAM: LONGIT. SEAMS	SINGLE	15/16	2 1/2	2 1/2
" " & FURNACE "	"	15/16	2 1/2	2 1/2

HEATING SURFACE = 5944.4^{sq}
IN TWO BOILERS.

STAYS					
TENSILE TONS/SQ	DIA	THDS /IN	EFF. DIA	EFF. AREA	N ^o IN ONE BLE
26 TO 30	1 3/4	9	1.608	2.03	278
28 TO 32	1 7/8	9	1.733	2.358	60
	2	6	1.786	2.507	4
	2 3/8	6	2.536	5.053	3
	3 1/8	6	2.911	6.658	14

STAY TUBES 5/16 THICK SCREWED 9 THDS/INCH.
EFF. AREA = 1.605 SQ INCHES.

NOTE: STAYS BETWEEN COMB. CHAMBS & MARGINAL STAYS IN BACK SCREWED THRO' BOTH PLATES & NUT FITTED TO EACH END. STAYS FROM COMB. CHAMBS TO SHELL & REMAINDER OF STAYS IN BACK TO HAVE NUT ON INNER END ONLY & TO PROTECT 5/8 & BE CALLED AT OUTER END

SUNDERLAND.

A. DICKINSON & SONS, LD.

DONKEY BOILER

No. 1095

INTENDED FOR

A. W. THOMPSON & SONS, LD.

S. S. No. 560

No. 3976
LLOYD'S TEST
320 lbs.
W.P. 180 LBS.
A.T.G. 21-1-28.

SUNDERLAND RPT. No. 29682

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Lloyd's Register
Foundation

W560-0115

HORIZONTAL DONKEY BOILER

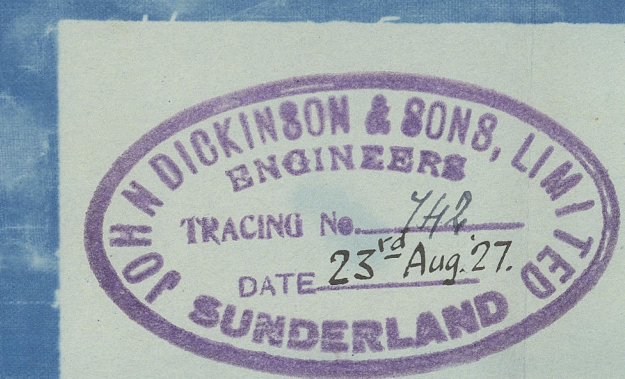
6 Lloyds requirements for a working pressure of 180 lbs per Sq. In. Test pressure 320 lbs per Sq. In.

All plates, rivets, stays & girders of steel

Tubes of wrought iron

SCALE: ONE INCH = ONE FOOT

AS

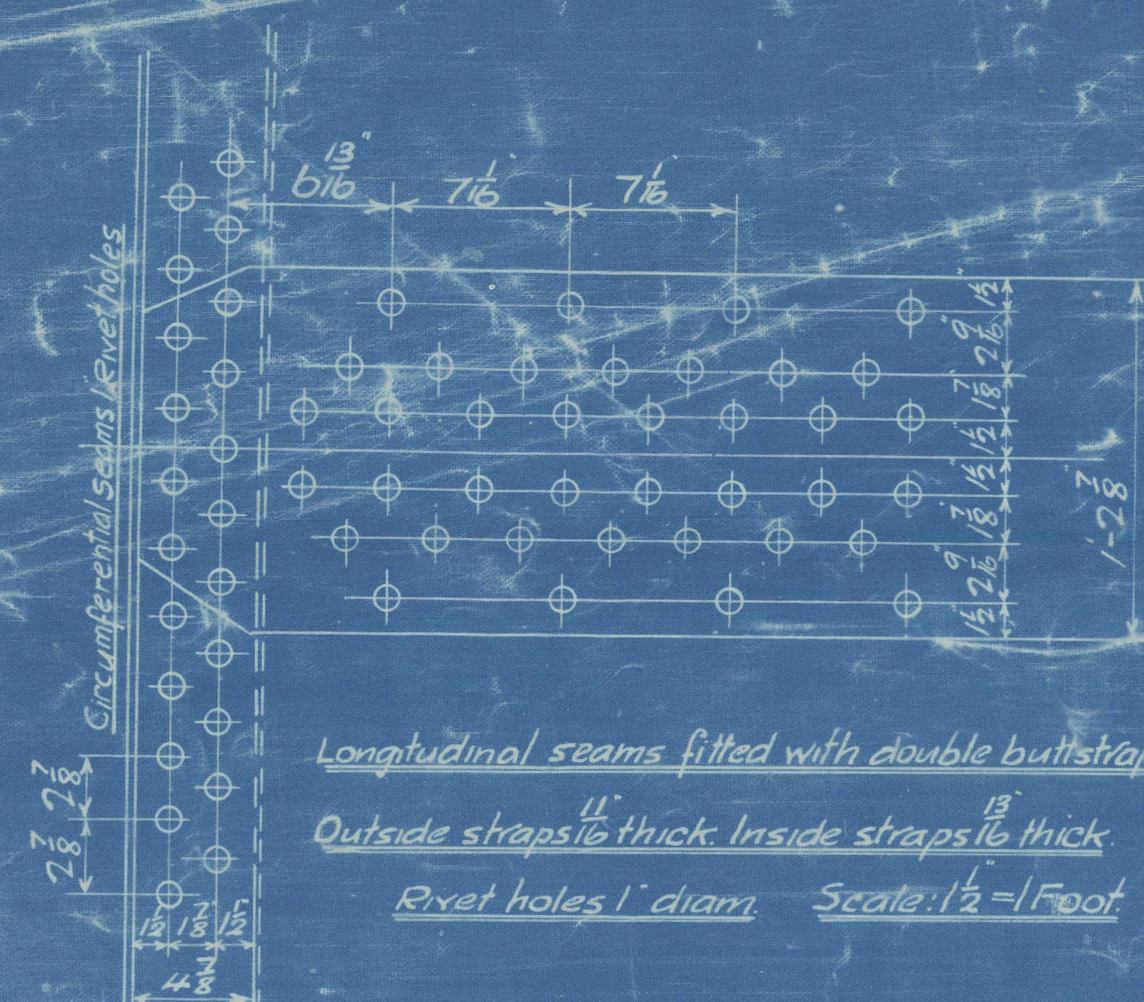


TENSILE STRENGTH

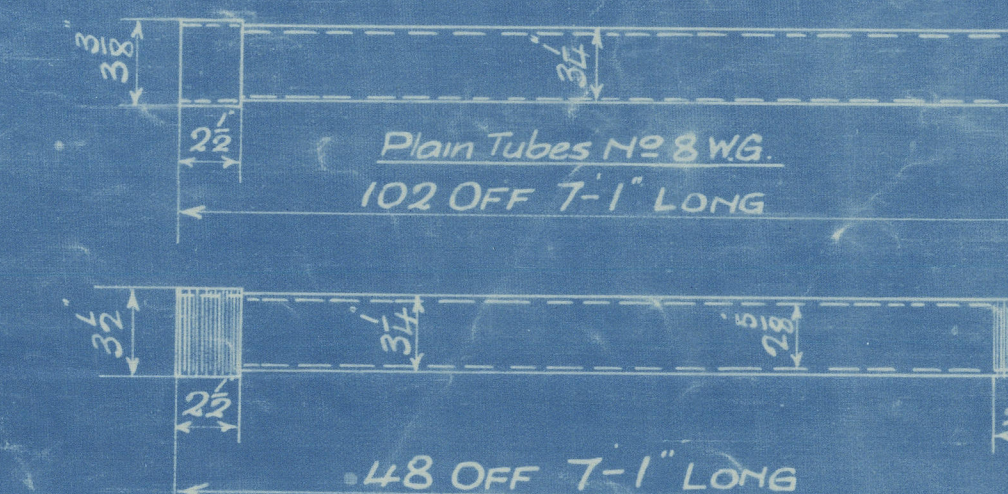
Plate	Tons per Sq. Inch
Shell plates, buttstraps	28 to 32
Manhole stiffening Rings	28 to 32
Comb. Chamber Girders	28 to 32
All other plates	26 to 30

RIVETING

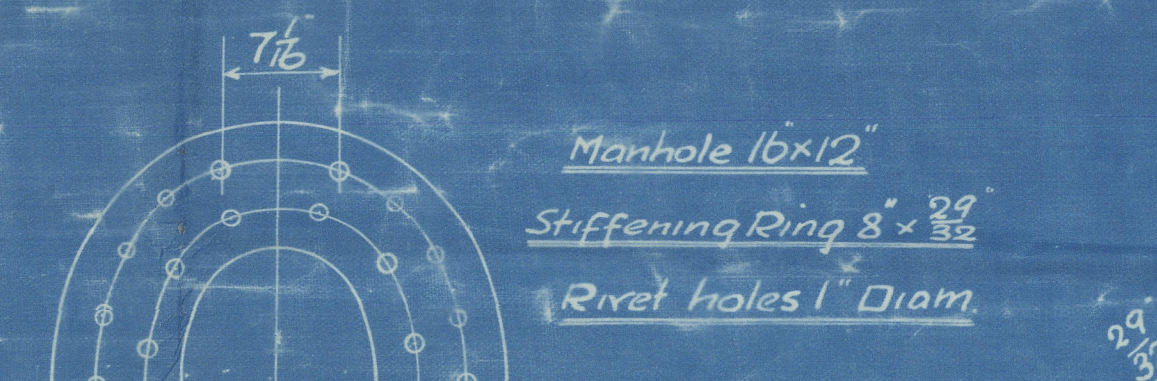
Position	Riveting	Diam. of rivet	Pitch	Lap
Comb. chamber longitudinal seams	Single	$\frac{1}{16}$	2 1/2	2 1/2
Comb. chamber & Furnace seams	Single	$\frac{1}{16}$	2 1/2	2 1/2



Stays	Temp. Stress Tons per Sq. In.	Diam.	Threads per inch	Eff. Diam.	Eff. Area	No. in Boiler
26	$\frac{1}{16}$	9	14	8.888	1.73	20
28	$\frac{1}{16}$	9	14	8.888	1.73	20
30	$\frac{1}{16}$	9	14	8.888	1.73	20
28	$\frac{1}{16}$	6	14	7.888	2.5	1
32	$\frac{1}{16}$	6	14	7.888	2.5	1



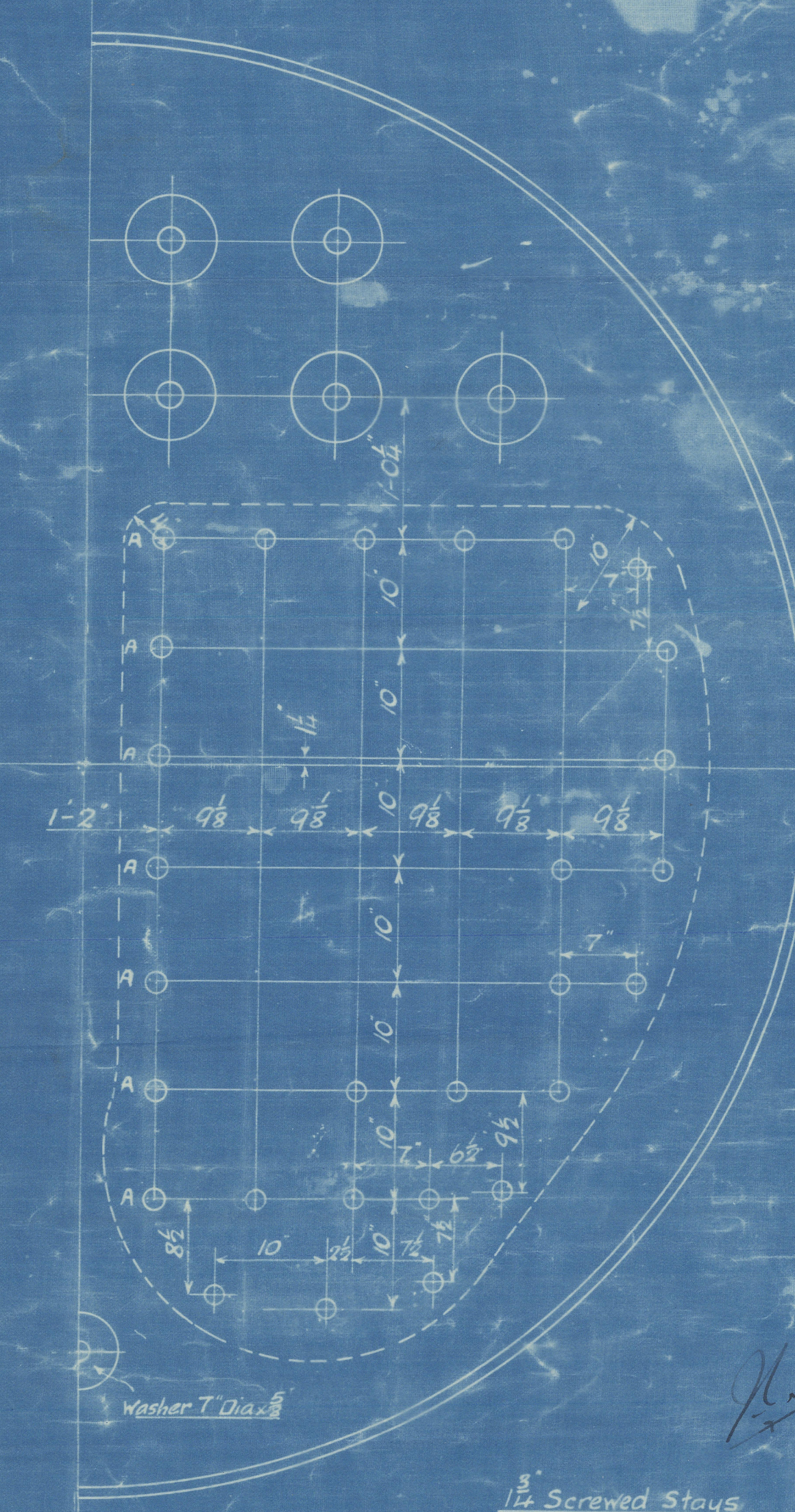
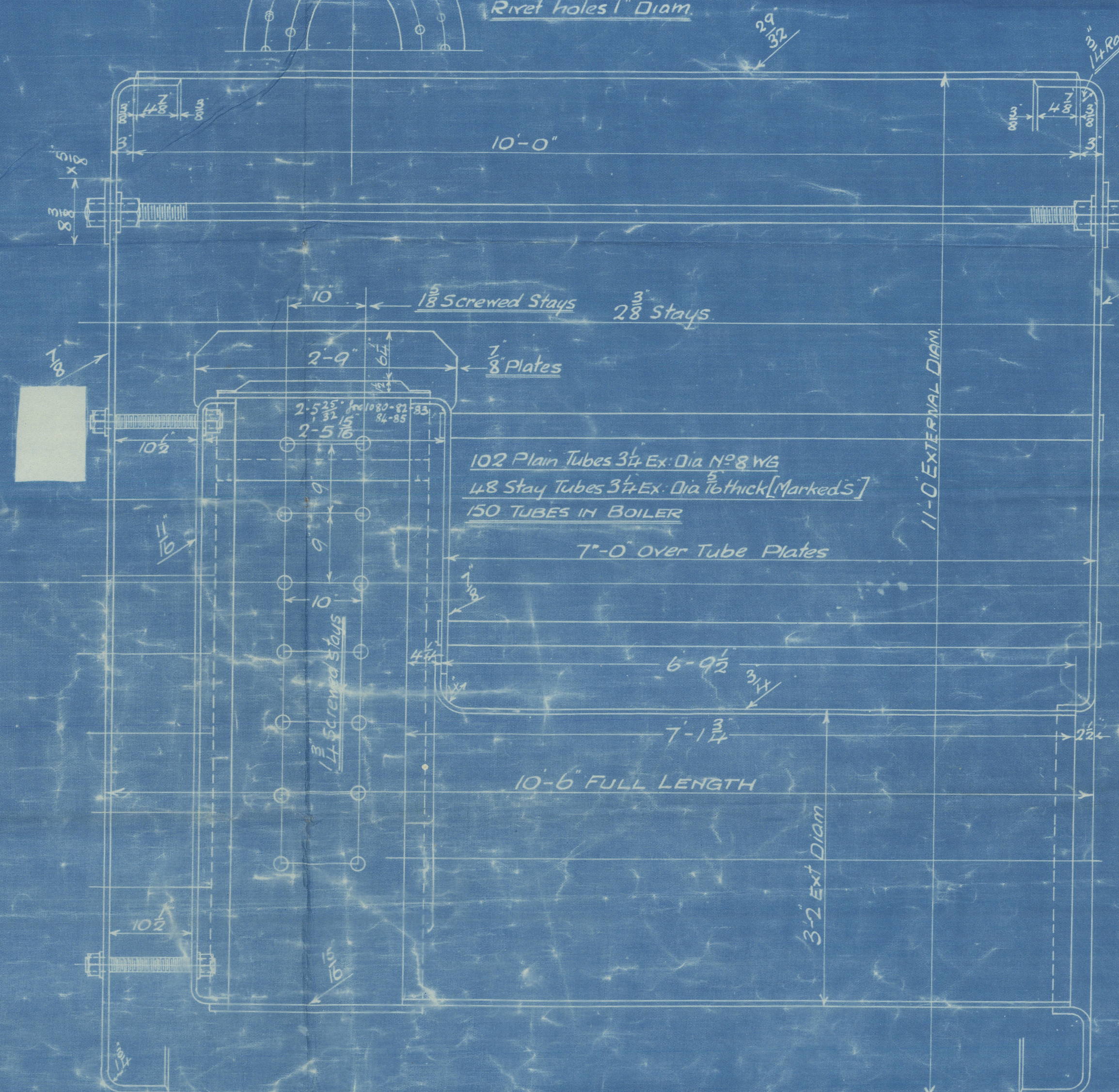
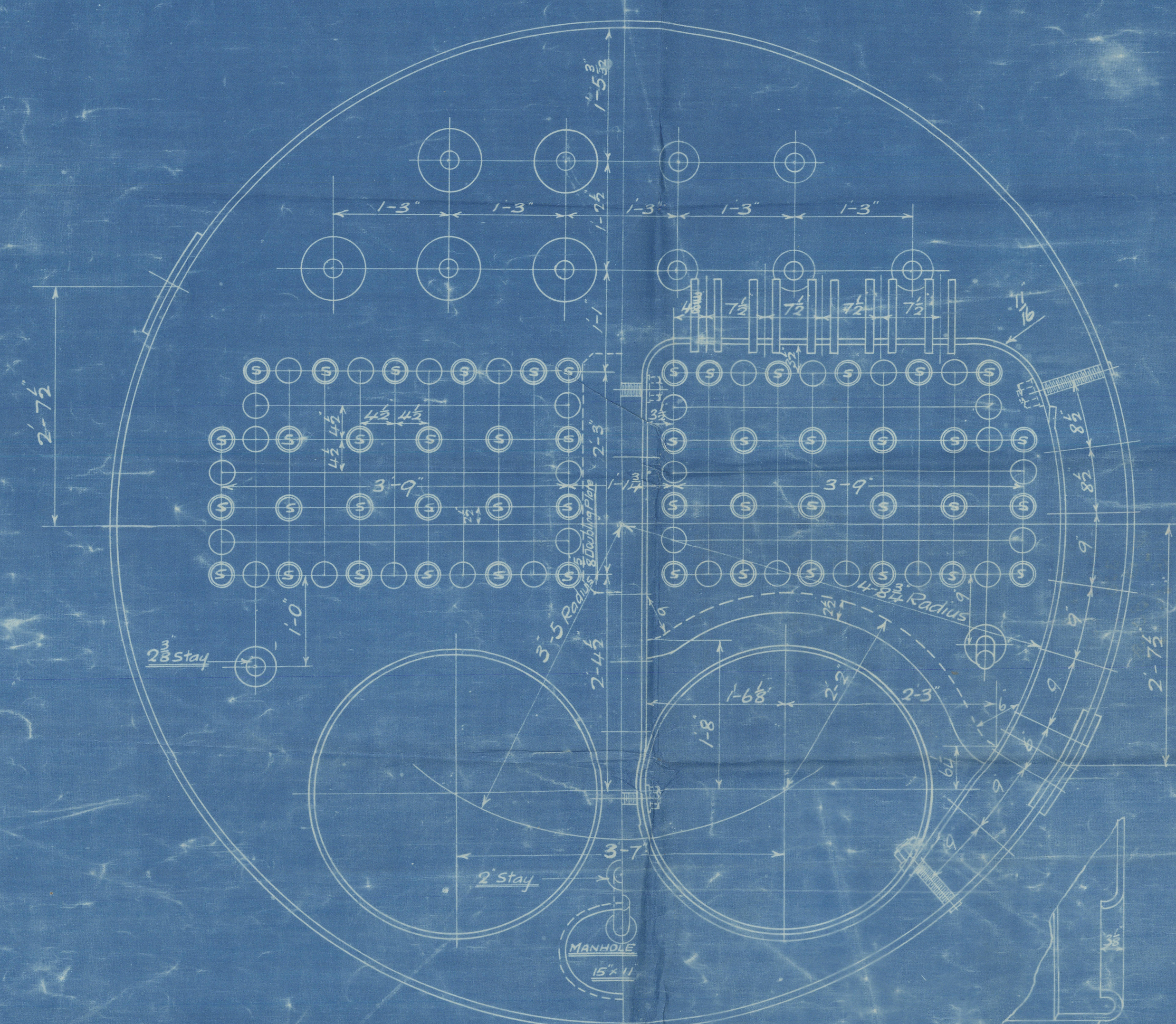
Stay Tubes 5/16 inch thick, screwed 9 threads per inch. Eff. Area 2.1737 sq. in.



Manhole 16x12"

Stiffening Ring 8" x 2 1/2"

Rivet holes 1" diam.



For position of stays on back & rolling stays see Arrangement of Mountings

1/2 inch Screwed Stays

1/2 inch Screwed Stays (Marked A)

NOTE: Stays between combustion chambers & marginal stays in backs screwed thro' both plates & not fitted to each end. Stays from combustion chambers to shell & remainder of stays in back to have not fitted on inner end only, & to project 3/4 inch thro' plate & to be caulked.

Nº 1095 ENG 891 Intended for J.L. Thompson's No. 560.

Total Heating Surface.
1071 Sq. feet